

LISTING OF CLAIMS

1. (Currently amended) A structure used as a ~~greenhouse~~ roof frame of a greenhouse comprising

a rectangular frame arranged horizontally,

a rectangular main beam arranged vertically on the rectangular frame, and

a principal rafter supporting the rectangular main beam, and

pillars which support the rectangular frame, the pillars having top edges,

wherein the rectangular frame is coupled to the top ~~of each~~ edges of the pillars ~~of a~~ greenhouse;

wherein the rectangular main beam comprises upper and lower chords arranged in parallel at the upper and lower sides, and end vertical members provided between both ends of the chords;

wherein the rectangular frame and the rectangular main beam are sterically-disposed in an inverted T shape; and

wherein one end of the principal rafter is coupled to the upper chord of the rectangular main beam and the other end of the principal rafter is coupled to the rectangular frame at both sides of the rectangular main beam.

2. (Currently amended) The structure according to claim 1, wherein the structure is set on a support part of the greenhouse including the pillars in such a manner that four corners of the rectangular frame are pinned to the top ~~of each~~ edges of the pillars, respectively.

3. (Previously Presented) The structure according to claim 1, further comprising a secondary member such as a covering material of the greenhouse and a supporting member of the covering material.

4. (Currently amended) A ~~greenhouse~~ roof frame of a greenhouse comprising plural structures which are set on a support part of the greenhouse including pillars to be adjacent to each other,

wherein each of the structures comprises

a rectangular frame arranged horizontally,

a rectangular main beam arranged vertically on the rectangular frame, and

a principal rafter supporting the rectangular main beam;

wherein the rectangular frame is coupled to the top of ~~each~~ each edges of the pillars;

wherein the rectangular main beam comprises chords arranged in parallel at the upper and lower sides, and end vertical members provided between both ends of the chords;

wherein the rectangular frame and the rectangular main beam are sterically-disposed in an inverted T shape; and

wherein one end of the principal rafter is coupled to the upper chord of the rectangular main beam and the other end of the principal rafter is coupled to the rectangular frame at both sides of the rectangular main beam.

5. (Currently amended) The ~~greenhouse~~ roof frame according to claim 4, wherein each of the structures is set on the support part in such a manner that four corners of the

rectangular frame are pinned to the top of ~~each~~ edges of the pillars, respectively.

6. (Currently amended) The ~~greenhouse~~ roof frame according to claim 5, wherein the structures adjacent to each other are set on the support part in such a manner that corner portions of the rectangular frames are gathered on a plate provided on the top of ~~each~~ edges of the pillars to be pinned.

7. (Currently amended) A greenhouse framework comprising pillars constructing a support part of a greenhouse, and plural structures which are set on the top of ~~each~~ edges of the pillars to be adjacent to each other,

wherein each of the structures comprises

a rectangular frame arranged horizontally,

a rectangular main beam arranged vertically on the rectangular frame, and

a principal rafter supporting the rectangular main beam;

wherein the rectangular frame is coupled to the top of ~~each~~ edges of the pillars;

wherein the rectangular main beam comprises chords arranged in parallel at the upper and lower sides, and end vertical members provided between both ends of the chords;

wherein the rectangular frame and the rectangular main beam are sterically-disposed in an inverted T shape; and

wherein one end of the principal rafter is coupled to the upper chord of the rectangular main beam and the other end of the principal rafter is coupled to the rectangular frame at both sides of the rectangular main beam.

8. (Currently amended) The greenhouse framework according to claim 7, wherein each of the structures is set on the support part in such a manner that four corners of the rectangular frame are pinned to the top of ~~each~~ each edges of the pillars, respectively.

9. (Currently amended) The greenhouse framework according to claim 8, wherein the structures adjacent to each other are set on the support part in such a manner that corner portions of the rectangular frames are gathered on a plate provided on the top of ~~each~~ each edges of the pillars to be pinned.

10. (Currently amended) A greenhouse comprising a roof having a roof frame, and a support part supporting the roof frame,

wherein the roof frame comprises plural structures which are set on the support part to be adjacent to each other,

wherein each of the structures comprises

a rectangular frame arranged horizontally,

a rectangular main beam arranged vertically on the rectangular frame, and

a principal rafter supporting the rectangular main beam;

wherein the rectangular frame is coupled to the top of ~~each~~ each edges of pillars constructing the support part;

wherein the rectangular main beam comprises chords arranged in parallel at the upper and lower sides, and end vertical members provided between both ends of the chords;

wherein the rectangular frame and the rectangular main beam are sterically-disposed in an inverted T shape; and

wherein one end of the principal rafter is coupled to the upper chord of the rectangular main beam and the other end of the principal rafter is coupled to the rectangular frame at both sides of the rectangular main beam.

11. (Currently amended) The greenhouse according to claim 10, wherein each of the structures is set on the support part in such a manner that four corners of the rectangular frame are pinned to the top ~~of each~~ edges of the pillars, respectively.

12. (Currently amended) The greenhouse according to claim 11, wherein the structures adjacent each other are set on the support part in such a manner that corner portions of the rectangular frames are gathered on a plate provided on the top ~~of each~~ edges of the pillars to be pinned.

13. (Currently amended) A greenhouse framework building method comprising the steps of:

a) building plural structures; and
b) setting the structures built by said a) step on the top ~~of each~~ edges of pillars constructing a support part of a greenhouse to be adjacent to each other, wherein each of the structures comprises
a rectangular frame arranged horizontally,
a rectangular main beam arranged vertically on the rectangular frame, and
a principal rafter supporting the rectangular main beam;
wherein the rectangular frame is coupled to the top ~~of each~~ edges of the pillars;
wherein the rectangular main beam comprises chords arranged in parallel at the

upper and lower sides, and end vertical members provided between both ends of the chords;

wherein the rectangular frame and the rectangular main beam are sterically-disposed in an inverted T shape; and

wherein one end of the principal rafter is coupled to the upper chord of the rectangular main beam and the other end of the principal rafter is coupled to the rectangular frame at both sides of the rectangular main beam.

14. (Currently amended) The greenhouse framework building method according to claim 13, wherein in said b) step, each of the structures is set on the support part in such a manner that four corners of the rectangular frame are pinned to the top ~~of each edges~~ of the pillars, respectively.

15. (Currently amended) The greenhouse framework building method according to claim 14, wherein in said b) step, the structures adjacent each other are set on the support part in such a manner that corner portions of the rectangular frames are gathered on a plate provided on the top ~~of each edges~~ of the pillars to be pinned.

16. (Currently amended) The greenhouse framework building method according to claims 13, wherein each of the structures built by said a) step further comprises a secondary member such as a covering material of the greenhouse and a supporting member of ~~said the~~ covering material.